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SEQUENCE LISTING

TECH CENTER 1600/2900

1110 The University of Texas System Board of Regents

1120 Regulatable, Catalytically Active Nucleic Acids

1130 113927-1050

1140 09/883,119

1141 2001-06-14

1150 00/212,097

1151 2000-06-15

1160 44

1170 PatentIn version 3.1

1110 1

1111 129

1112 DNA

1113 Artificial Sequence

1120

1121 Engineered Aptazyme

1130 1

1131 129 60

1132 129 120

1133 129 129

1110 2

1111 131

1112 DNA

1113 Artificial Sequence

1120

1121 Engineered Aptazyme

1130 2

1131 60 60

1132 120 120

1133 131 131

1110 3

1111 75

1112 DNA

1113 Artificial Sequence

1120

1121 Engineered Aptazyme

4400 3
 gataatacga ctcaactatag ggatcaacgc tcagtagatg ttttcttggg ttaattgagg 60
 cctgagtata aggtg 75

4210 4
 4211 84
 4212 DNA
 4213 Artificial Sequence

4220
 4221 Engineered Aptazyme

4230
 4231 misc_feature
 4232 Engineered Sequence

4400 4
 cttagctaca atatgaacta acgtagcata tgacgcaata ttaaaccgga gcattatgtt 60
 caataaaggt cgttaatctt accccggaa 89

4210 5
 4211 131
 4212 DNA
 4213 Artificial Sequence

4220
 4221 Engineered Aptazyme

4230
 4231 misc_feature
 4232 (77)..(77)
 4233 n=a,c,t, or g

4230
 4231 misc_feature
 4232 (108)..(108)
 4233 n=a,c,t, or g

4400 5
 gcttgagtat aaggtgaactt atactagtaa tetatctaaa cggggaacct ctctagtaga 60
 caatcccggtg ctaaatnata ccagcatcgt cttgatgcc ttggcagnta aatgcctaac 120
 gctatccct t 131

4210 6
 4211 101
 4212 DNA
 4213 Artificial Sequence

4220

<223> Engineered Aptazyme

<220>

<221> misc_feature

<223> Engineered Aptazyme

<220>

<221> misc_feature

<223> Engineered Sequence

<400> 6

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cacataagggt cgtaaatott acccoggaat tctatccagc t 101

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<213> Artificial Sequence<220><223> Engineered Aptazyme

<220>

<221> misc_feature

<222> (37)..(87)

<223> n=a, t, g, or c

<400> 7

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nnnnnnnnnn nnnnnnnnnn nnnnnngagg ttaggtgcct cgtgatgtcc agtcgc 116

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 8

ttcttataacg actcaactata 20

<210> 9

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 9

acgactggac atcaagag 18

<210> 10

Q211: 36
Q212: DNA
Q213: Artificial Sequence

Q220:
Q223: primer

Q400: 10
tctgaataag actcactata ggacctcggc gaaagc 36

Q210: 11
Q211: 80
Q212: DNA
Q213: Artificial Sequence

Q220:
Q223: competitor sequence

Q400: 11
gggauggau ccacaucaac gaauucgagu cgagaacugg ugcgaaugcg aguaaguuca 60
cuucagacuu gacgaagcuu 80

Q210: 12
Q211: 82
Q212: DNA
Q213: Artificial Sequence

Q220:
Q223: competitive sequence

Q400: 12
gggauggau ccacaucaac gaauucguag cguagaguau gagagagcca agguacagguu 60
uacucagac uugacgaagc uu 82

Q210: 13
Q211: 80
Q212: DNA
Q213: Artificial Sequence

Q220:
Q223: competitive sequence

Q400: 13
gggauggau ccacaucaac gaauucauca gggcuaaaga gugcagaguu acuuaguuca 60
cuucagacuu gacgaagcuu 80

Q210: 14
Q211: 211
Q212: DNA
Q213: Artificial Sequence

42100

42100 competitive sequence

44900 14

gacuaauang auuuggucuc auuaaagauc acaaaauugcu ggaaacuccu uugaggcuag 60

gacaaucagc aaggaaguua acauauaaug uuaaaaccuu cagagacuag acgugaucau 120

uuauuagacg ccuugcggcu cuuauuagau aagguauagu ccaaaauugu auguaaaauac 180

aaaauagauea aaaaaaauga aaucuaugg g 211

42100 15

42110 30

42120 DNA

42130 Artificial Sequence

42200

42200 competitive sequence

42200

42210 misc_feature

42220 (37)..(56)

42230 nra,c,t, or g

44900 15

gggauggau ccacaucuac gaauucnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnuuca 60

cuccagacu gacgaagcu 80

42100 16

42110 122

42120 DNA

42130 Artificial Sequence

42200

42200 Parental P6 construct

44900 16

gactgagtat aaggtgaact atacttgtaa tctatctaaa cggggaacct ctctagtaga 60

gaatcccgag cttaaattgta ggaactgccg ggttctacat aaatgcctaa cgactatccc 120

tt 122

42100 17

42110 24

42120 DNA

42130 Artificial Sequence

42200

42200 primer

0400 17
ttatactagt aatctatcta aacg 24

0210 18
0211 24
0212 DNA
0213 Artificial Sequence

0220
0223 primer

0400 18
ttatgaattc tatccagctg catg 24

0210 19
0211 94
0212 DNA
0213 Artificial Sequence

0220
0223 oligonucleotide

0400 19
gactgagtat aaggtgaatt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
gaatcccggtg ctaaatgact aagactatc cttt 94

0210 20
0211 131
0212 DNA
0213 Artificial Sequence

0220
0223 oligonucleotide

0400 20
gactgagtat aaggtgaatt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60
gaatcccggtg ctaaattata ccagcatcgt cttgatgcc ttggcagata aatgctaac 120
gactatccct t 131

0210 21
0211 133
0212 DNA
0213 Artificial Sequence

0220
0223 oligonucleotide

0400 21
gactgagtat aaggtgaatt atacttgtaa tctatctaaa cggggaacct ctctagtaga 60

caatcccggtg ctaaaattgat accagcatcg tcttgatgcc cttggcagca taaatgcta 120
 aggattatcc ctt 123

0210 22
 0211 119
 0212 DNA
 0213 Artificial Sequence

0220
 0223 oligonucleotide

0400 22
 gactgagtat aaggtgactt ataattgtaa tctatctaaa cgggggaacct ctctagtaga 60
 caatcccggtg cataccagca tcttcttgat gcccttgcca ggctaacga ctatccctt 119

0210 23
 0211 119
 0212 DNA
 0213 Artificial Sequence

0220
 0223 oligonucleotide

0400 23
 gactgagtat aaggtgactt ataattgtaa tctatctaaa cgggggaacct ctctagtaga 60
 caatcccggtg ctaaaatatac cagcatcgtc ttgatgccct tggcagtaaa tgctaacga 120
 ctatccctt 129

0210 24
 0211 115
 0212 DNA
 0213 Artificial Sequence

0220
 0223 oligonucleotide

0400 24
 gactgagtat aaggtgactt ataattgtaa tctatctaaa cgggggaacct ctctagtaga 60
 caatcccgta taaccagcat gtcttgatgc ccttggcagc taacgactat ccctt 115

0210 25
 0211 117
 0212 DNA
 0213 Artificial Sequence

0220
 0223 oligonucleotide

0400- 25
 gctttagtat aaggtgactt atacttgtaa tctatctaaa cgggggaact ctctagtaga 60
 aattcccytg ataccagcat cgtcttgatg ccttggcag cctaacgact atccctt 117

0210- 26
 0211- 144
 0212- DNA
 0213- Artificial Sequence

0400- 26
 ttagtataag gtgaattata ctagtaatat atctaaacgg ggaacctata taccagcatc 60
 ctctgatgc ccttggcaga gacaatcccg tctaaattg taggactgcc cgggttctac 120
 ataaatgctt aacgactatc cctt 144

0210- 27
 0211- 140
 0212- DNA
 0213- Artificial Sequence

0400- 27
 ttagtataag gtgaattata ctagtaatat atctaaacgg ggaacctata ccagcatcgt 60
 ctctgatgcc ttggcagaca atcccgctgt aaattgtagg actgcccggg ttctacataa 120
 atgactaaag actatccctt 140

0210- 28
 0211- 107
 0212- DNA
 0213- Artificial Sequence

0400- 28
 gtaattctat taaaagggga acctctctag tagacaatcc cgtgctaaat tgataaccagc 60
 atcgctctga tggcattggc agcataaatg cctaacgact atccctt 107

0210- 29
 0211- 107
 0212- DNA
 0213- Artificial Sequence

<220>

<221> oligonucleotide

<400> 29

gtaattatc taaaagggga aactctctag tagacaatcc cgtgctaaat tgataccagc 60

atggtcttga tgcctttggt tgcataaatg cctaacgact atccctt 127

<210> 30

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<221> oligonucleotide

<400> 30

gctcagtgat aaggtgactt ataacttgtaa tctatctaaa cggggaacct ctctagtaga 60

caatccogtg ctaaattagg atatgcttcg gcagaaggat aaatgcctaa cgactatccc 120

tt 122

<210> 31

<211> 124

<212> DNA

<213> Artificial Sequence

<220>

<221> oligonucleotide

<400> 31

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caatccogtg ctaaattgag gatatgcttc gccagaaggc ataaatgcct aacgactatc 120

cctt 124

<210> 32

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 32

gataatacga ctcaactataa tggaattacc gctttgt 37

<210> 33

<211> 26

<212> DNA

<213> Artificial Sequence

<210>

<213> primer

<400> 33

gctctagaact tagctacaat atgaac

26

<210> 34

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> substrate

<400> 34

aaaaaaaaaa aaaaaaaaaa aaugcacu

28

<210> 35

<211> 61

<212> DNA

<213> Artificial Sequence

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<223> ribozyme

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60

t

61

<210> 36

<211> 54

<212> DNA

<213> Artificial Sequence

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<223> ribozyme

<220>

<221> misc_feature

<222> (14)..(17)

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ccagcatta aggnnnnaag ggtgaacttt tagtttaggt cccgttagtt tagg

54

<210> 37

<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme

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<320> (39)..(43)
<330> nsa, c, t, or g

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<211> 38
<212> 50
<213> DNA
<213> Artificial Sequence

<220>
<223> ribozyme

<400> 38
agaaaccccc aaattgtgtc gggctgttat gcgtcgttta ttgagattac 50

<211> 39
<212> 49
<213> DNA
<213> Artificial Sequence

<220>
<223> ribozyme

<400> 39
aagtaagtta atatcccgga gctaggtgct tcttgtggac agttatggg 49

<211> 40
<212> 50
<213> DNA
<213> Artificial Sequence

<220>
<223> ribozyme

<400> 40
gaaacacaga ctatattgct tggtcggagc gtttcgttta ttgagtttac 50

<211> 41
<212> 50
<213> DNA
<213> Artificial Sequence

<210>

<213> ribozyme

<210>

<211> misc_feature

<222> (29)..(28)

<223> n=a, c, t, or g

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taacgtctca tggctaaatt gccatgtntg ctacaaatga tatgactaga

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<210> 42

<211> 50

<212> DNA

<213> Artificial Sequence

<210>

<213> ribozyme

<400> 42

taacgaagac ttggtgaac ggotagtott ctattaatga gatgaagaga

50

<210> 43

<211> 50

<212> DNA

<213> Artificial Sequence

<210>

<213> ribozyme

<210>

<211> misc_feature

<222> (31)..(31)

<223> n=a, c, t, or g

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<210> 44

<211> 50

<212> DNA

<213> Artificial Sequence

<210>

<213> ribozyme

<210>

<211> misc_feature

<222> (32)..(32)

<223> n=a, c, t, or g

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tttaaaacaa gagaattggc agtaccgtgc tnggttcga gataacgaga

50